

(13) **SCHEDULE**

(14) **Certificate of Conformity No. TÜV 11 ATEX 076879 X**

(15) Description of equipment

The Level Switch LBFS is designed to detect levels in tanks, media separation and provide empty-pipe detection or dry-run protection for pumps. A high frequency sweep signal is radiated from the sensor tip into the tank. The media will act as a virtual capacitor, which together with a coil in the sensor head, will form a circuit creating the switch point signal. The virtual capacitance will depend of the dielectric value of the media.

The Level sensor can be delivered in different mechanical type variants covering e.g , output configuration, process connection thread size, housing material in accordance with the below listed type code list.

| | | | | | | | |
|---|-------------|----------|----------|----------|----------|----------|------------|
| Type key | LBFS | 3 | x | x | x | x | (x) |
| Ex classification: | | | | | | | |
| Category 3: Ex nA II T4/T5, II 3G | | 3 | | | | | |
| Electrical Connection: | | | | | | | |
| Plug, M12 | | | 1 | | | | |
| type code reserved for fixed cable version | | | | | | | |
| Process Connection: | | | | | | | |
| Various connections such as: | | | | x | | | |
| G1/2" | | | | x | | | |
| G3/4" | | | | x | | | |
| G1" | | | | | | | |
| Process Connection material; | | | | | | | |
| Stainless Steel AISI 304 | | | | | 1 | | |
| Stainless Steel AISI 316L | | | | | 2 | | |
| Output Configuration: | | | | | | | |
| PNP output | | | | | | 1 | |
| NPN output | | | | | | 2 | |
| Configuration: | | | | | | | |
| Configuration according to customer specification | | | | | | | C |

Permitted range of the ambient temperature -40 °C to +85 °C

Temperature Class: T5 for max. Ambient temp. of 74 °C

Temperature Class: T4 for max. Ambient temp. of 85 °C

Ingress protection class: IP67

(16) Test documents are listed in the test report No. 11 204 391749.

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(17) Special conditions for safe use

The certificate numbers incorporates an "X" marking due to reduced force used on the cable pull test. The sensor cable must be fixed externally to the sensor at a distance max 50 mm from the level sensor.

The sensor can be delivered with factory mounted M12 plug connector. The sensor can alternatively be delivered without the M12 plug connector. In case delivery is without plug connector a connector meeting ingress protection IP67 must be chosen.

(18) Essential Health and Safety Requirements

no additional ones